**Performance Standards for Stage 1 Chemistry**

| - | **Investigation, Analysis, and Evaluation** | **Knowledge and Application** |
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| **A** | **Critically** deconstructs a problem and **designs** a **logical, coherent**, and **detailed** chemistry investigation.Obtains records, and represents data, using **appropriate** conventions and formats accurately and **highly** effectively.**Systematically** analyses and interprets data and evidence to formulate **logical** conclusions with **detailed** justification.**Critically** and **logically** evaluates procedures and their effects on data. | Demonstrates **deep and broad** knowledge and understanding of a range of chemical concepts.Applies chemical concepts **highly effectively** in **new and** familiar contexts.**Critically** explores and understands **in depth** the interaction between science and society.Communicates knowledge and understanding of chemistry **coherently** with **highly effective** use of appropriate terms, conventions and representations |
| **B** | **Logically** deconstructs a problem and d**esigns** a **well-considered** and **clear** chemistry investigation.Obtains, records, and represents data, using **appropriate** conventions and formats **mostly** accurately and effectively.**Logically** analyses and interprets data and evidence to formulate **suitable** conclusions with **reasonable** justification.**Logically** evaluates procedures and their effects on data. | Demonstrates **some depth** and breadth of knowledge and understanding of a range of chemical concepts. Applies chemical concepts **mostly effectively** in **new and** familiar contexts.**Logically** explores and understands in **some depth** the interaction between science and society.Communicates knowledge and understanding of chemistry **mostly coherently** with **effective** use of appropriate terms, conventions, and representations. |
| **C** | Deconstructs a problem and **designs** a **considered** and **generally clear** chemistry investigation.Obtains, records, and represents data, using **generally** **appropriate** conventions and formats with **some errors** but **generally** accurately and effectively.Undertakes **some** analysis and interpretation of data and evidence to formulate **generally** appropriate conclusions with **some** justification.Evaluates procedures and **some** of their effects on data. | Demonstrates knowledge and understanding of a **general** range of chemical concepts.Applies chemical concepts **generally effectively** in **new o**r familiar contexts.Explores and understands **aspects** of the interaction between science and society.Communicates knowledge and understanding of chemistry **generally effectively** using **some** appropriate terms, conventions, and representations. |
| **D** | **Prepares** a basic deconstruction of a problem and an **outline** of a chemistry investigation.Obtains, records, and represents data, using conventions and formats **inconsistently**, with **occasional** accuracy and effectiveness.**Describes** data and undertakes **some basic** interpretation a **basic** conclusion.**Attempts** to evaluate procedures **or** suggest **an** **effect** on data. | Demonstrates **some basic** knowledge and **partial** understanding of chemical concepts.Applies **some** chemical concepts in familiar contexts.**Partially** explores and recognises **aspects** of the interaction between science and society.Communicates **basic** chemical information, using **some** appropriate terms, conventions, and/or representations. |
| **E** | **Attempts** a **simple** deconstruction of a problem and a procedure for a chemistry investigation.**Attempts** to record and represent **some** data, with **limited** accuracy or effectiveness.**Attempts** to describe results and/or interpret data to formulate a **basic** conclusion.**Acknowledges** that procedures affect data. | Demonstrates some **limited** recognition and awareness of chemical concepts.**Attempts** to apply chemical concepts in familiar contexts.**Attempts** to explore and identify **an aspect** of the interaction between science and society.**Attempts** to communicate information about chemistry. |